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IN THE CLAIMS

Please amend the claims to read as follows:

- 1. (currently amended) A device (1) arranged for carrying-out a bioelectrical interaction with an individual, said device comprising:
- sensing means (6)-comprising a plurality of electrodes (8,9)-arranged to measure a first electrical signal (S)-when brought into contact with an individual's skin;
- testing means (18) arranged to deliver a second electrical signal (T) to a corresponding input of said electrodes (8,9), said electrodes being further arranged to generate a response signal (S') upon receipt of the second electrical signal;
- control unit (5) arranged to analyze the first electrical signal and to actuate the testing means (18) upon an occurrence of a predetermined event (15) in the first electrical signal;
- lead-off detection means (14a)-arranged to verify an integrity of the contact of said electrodes by analyzing the response signal (S²) and detecting a parameter related to said integrity.
- 2. (currently amended) A device according to Claim 1, wherein the test means (24) comprises a signal generator (24a)-arranged to generate the second electrical signal in substantially the same bandwidth as the first electrical signal.
- 3. (currently amended) A device according to Claim 2, wherein the test means (24) further comprises a sequencer (24b) arranged to deliver a sequence of variable second electrical signals to each input of said electrodes (29,29a) in order to determine the integrity of the contact of each electrode within said plurality of electrodes.
- 4. (currently amended) A device according to any one of the preceding-Claims 1, wherein the device further comprises lead-off indication means (16), said lead-off indication means being actuable by the lead-off detection means (14a)-upon a detection of said parameter.
- 5. (currently amended) A device according to any one of the preceding-Claims 1, wherein said bioelectrical interaction comprises monitoring of a physiological condition of the individual.

- 6. (currently amended) A device according to any one of the preceding Claims 1, wherein said bioelectrical interaction comprises electro-stimulation of a body part of the individual.
- 7. (original) A method for on-demand verification of the integrity of an electrical contact of an electrode to a body part of an individual, wherein said electrode is part of a device arranged to carryout a bio-electrical interaction with the individual, said method comprising the following steps:
 - measuring a first electrical signal by means of the electrode;
 - analyzing the first electrical signal for occurrence of a predetermined event;
 - generating a second electrical signal upon detection of the predetermined event;
- generating a response signal by applying the second electrical signal to an input of the electrode;
 - analyzing the response signal for detecting a parameter related to said integrity.
- 8. (original) A method according to Claim 7, wherein the second electrical signal is generated in substantially the same bandwidth as the first electrical signal.
- 9. (original) A method according to Claim 8, further comprising the steps of: applying a sequence of variable second electrical signals to each input of said electrodes; processing the resulting sequence of response signals in order to determine the integrity of the contact of each electrode within said plurality of electrodes.